

# BU Law clinics will continue this year

Clinic director: ‘I’m not representing MIT — we represent the students.’

By Olivia Brode-Roger  
STAFF REPORTER

The second law clinic, focused on technology and cyberlaw, launches this fall. Overseen by Boston University Law faculty, the clinics partner students from MIT with BU Law students who provide legal assistance with issues related to their innovative activities.

“We know that the demand [for legal assistance] is very high,” director Andy Sellars JD said. Indeed, last year’s clinic on innovation reached more than 75 MIT ventures, “we’re expecting a similar number.”

Sellars emphasized that these ventures can range from starting a business to purely academic research.

“We’re here to help students do crazy-exciting things,” Sellars said “I hope I can break the feeling that lawyers are here to say no.”

The excitement in Sellars’s voice is palpable.

“I teach what I call constructive lawyering. Lawyers have a bad rep for being the ones who say no. I want to work with the client to get what they want.”

Sellars is also quick to clarify who the client is: “I’m not representing MIT. We represent the students.”

Sellars explained that the clinic can help in many ways.

The first is at the design stage: “when your legal spidey-sense is tingling, just contact us,” Sellars said. Both clinics have a single point of contact, the mailing list bulaw.

In addition to preventative consultations, the clinic can also represents students facing less-hypothetical legal issues. “As far as I can tell, MIT is the only school that does this, at least in the tech

sphere... This hasn’t happened before,” Sellars said.

Sellars also wants the clinic to “be of service to those who want to take on the policy fight. We aren’t interested in taking positions in our own name. We’re here to be an advocate for the students.”

The clinics find their origin in Fall 2013 when Jeremy Rubin ’16, was subpoenaed by New Jersey’s Attorney General for work done at a hackathon. MIT’s General Counsel, which represents the institute, declined to take a non-Institute case but still put Rubin in contact with the Electronic Frontier Foundation. After a failed challenge to the subpoena, a settlement was reached in May 2015.

In reaction MIT’s lack of legal support for the student, Prof. Hal Abelson PhD ’73, Prof Ethan Zuckerman and Nathan Matias G authored an open letter calling for MIT to make a stronger stand in the case, explaining that they considered “[the] subpoena to have a chilling effect on our own work.”

That letter resonates strongly with Sellars. “It is a big part of why I’m here. I’ve met with all of [the authors], I hope to build the clinics to their satisfaction.”

Zuckerman echoed a similar sentiment. “I’m glad we wrote the letter. It led to three things I feel good about,” he said.

The first is a series of IAP classes entitled “Hackers, know your rights” on which Kate Darling, the Intellectual Property research specialist at the Media Lab worked on with Sellars.

“[Sellars] is well known to our community,” Zuckerman added, “he’s been on the cutting edge of



ROBERT RUSCH—THE TECH

An eye chart hung outside lobby 7 commemorates the first day of classes for the MIT Class of 2020.

## Chris D’Elia featured as FallFest comedian

Chris D’Elia will be the featured comedian during this year’s FallFest, UA Events Committee co-chair Laura K. Yenchesky ’19 told *The Tech*.

She hopes that this iteration of the event, which takes place Sept. 30 at 7:30 p.m., will sell out the 1,132-seat Kresge Auditorium.

Yenchesky admitted that selling out Kresge is a lofty goal.

She said the committee se-

lected D’Elia because he offered a type of comedy that MIT students would enjoy, is currently popular, and was willing to perform at a reasonable cost.

Her co-chair Victoria S. Petrova ’17 said that she hopes that D’Elia will appeal to “as much of the student body as possible.”

The event itself is subsidized by funds that are provided to the committee through the SAO each year.

A tie-in study break on the steps of W20 this Friday at 4 p.m. will be paid for by funds allocated in the UA budget. The study break is, among other things, a chance for the events committee to recruit by answering questions students might have about the committee.

Tickets are available for purchase at <http://tickets.mit.edu/>.

—William Navarre

## IN SHORT

MIT Extended Plan medical insurance must be waived before Thursday, Sept. 15 to avoid paying for redundant coverage.

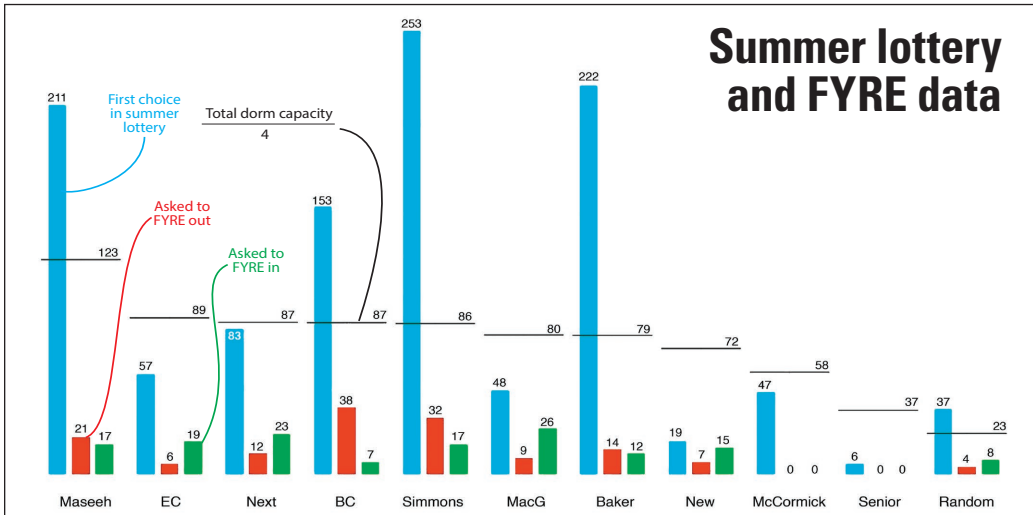
Physical Education classes begin Monday, Sept. 12.

Add date is Friday, Oct. 7. Not only is it the last day to add a class, but is

in many cases the last day to change grading option.

Send news and tips to [news@tech.mit.edu](mailto:news@tech.mit.edu).

## Summer lottery and FYRE data



INFOGRAPHIC BY OLIVIA BRODE-ROGER & VIVIAN HU

**Residential Life released data** on lottery first choices, FYRE move in and move out requests. However, the distribution of the 2020s throughout the dorms was not released, obscuring the relative demand for dorms.

In order to help interpret these data, we have added an estimate of dorm capacity. This is particularly meaningful for Random, which ranked third in number of first choices, but is only one of five dorms to have that number exceed its capacity.



VIVIAN HU—THE TECH

A group of seniors enjoy their last first day of classes at MIT on Killian Court.

## “SHOOT A PREZ, WIN A PRIZE”

A musical about presidential assassinations. **ARTS, p. 10**

## SUSPENSEFUL OPENING GAME

Last minute loss for MIT football team. **SPORTS, p. 16**

## PATIENT AUDIENCES WANTED

The cultured will enjoy *The Light Between Oceans*. **ARTS, p. 10**



## FIRE! FIRE! FIRE!

Breathing it, and on a stick! **PHOTO, p. 8**

## POKEMON GO IN THE MOTHERLAND

Catching them all in Tokyo. **CAMPUS LIFE, p. 7**

## SECTIONS

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THANKS FOR AN AWESOME SUMMER!

BOJAN SERAFIMOV  
MAHI SHAFIULLAH

WE MISS YOU ALREADY

FROM SAMANTHA, PREDRAG, AND ALL OF

KENSHO





# Orientation

Solution, page 11

|   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|
|   |   | 6 |   | 8 |   | 9 |   | 7 |
| 4 | 7 |   | 2 |   | 6 | 3 |   |   |
| 9 |   |   |   |   |   |   | 6 |   |
|   |   | 4 |   | 1 |   | 5 | 7 |   |
|   |   |   |   | 3 |   |   |   |   |
|   | 9 | 7 |   | 2 |   | 4 |   |   |
|   | 3 |   |   |   |   |   |   | 6 |
|   |   | 1 | 8 |   | 3 |   | 9 | 5 |
| 5 |   | 9 |   | 6 |   | 1 |   |   |

Instructions: Fill in the grid so that each column, row, and 3 by 3 grid contains exactly one of each of the digits 1 through 9.

# Disorientation

Solution, page 11

|     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|
| 14+ |     |     |     | 15x | 12x |
| 6x  | 10x |     | 4   |     |     |
|     | 3x  | 96x |     |     | 5÷  |
| 40x |     | 60x |     |     |     |
|     | 5   |     | 18x |     |     |
|     | 1÷  |     |     |     | 4   |

Instructions: Fill in the grid so that each column and row contains exactly one of each of the numbers 1–6. Follow the mathematical operations for each box.

## Put it in Writing by Gail Grabowski

Solution, page 11

## ACROSS

- 1 Rabbit relatives  
6 "\_\_\_ the night before . . ."  
10 Top-billed performer  
14 Musical drama  
15 Organization for people  
50+  
16 Sport on horseback  
17 Get an education  
18 Chauffeured car, for short  
19 Much-admired celebrity  
20 Upper-left PC key  
21 Sheet to excuse an  
absence  
24 Grasped in one's hand  
26 Evaluate  
27 Sailor's "Hello!"  
29 Use a shovel  
32 Saw socially  
35 Tennis-playing area  
37 \_\_\_ game (pitcher's dream)  
39 "Absolutely!"  
41 Sheet from a coworker  
44 Small speck  
45 Paperless novel

- 46 Style of furnishing  
47 Wanders around  
49 Salesperson, for short  
51 No longer in town  
52 State of mind  
54 " \_\_ hardly wait!"  
56 Sheet sent with a résumé  
61 Touch on the shoulder  
64 Baking appliance  
65 Canyon sound  
66 In separate pieces  
68 Provide temporarily  
69 Stretched tightly  
70 Big tourist attraction  
71 \_\_ and crafts  
72 Otherwise  
73 Forest trails

**DOWN**

- 1 Center of a bagel
- 2 Gorillas and chimps
- 3 Try communicating with
- 4 Make a mistake
- 5 Type of bank, for short
- 6 Bath powder

- 7 Be patient  
8 Knight's suit  
9 Occasional  
10 Small piano  
11 Chore list heading  
12 Frequently  
13 Performer's part  
22 Unusual  
23 Said specifically  
25 Jane \_\_ (Brontë novel)  
27 Corrosive compound  
28 Pay tribute to  
30 Data, for short  
31 \_\_ broke (risk it all)  
33 Direct look from a speaker  
34 Evil spirit  
36 Minor earthquake  
38 Walk in the woods  
40 Feeling achy  
42 Out-of-date  
43 Prefix for bytes or bucks  
48 Modifies, as legislation  
50 Boston cream or Key lime  
53 Window stick-on  
55 Muscle twinge

|    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| 1  | 2  | 3  | 4  | 5  |    | 6  | 7  | 8  | 9  |    | 10 | 11 | 12 | 13 |
| 14 |    |    |    |    |    | 15 |    |    |    |    | 16 |    |    |    |
| 17 |    |    |    |    |    | 18 |    |    |    |    | 19 |    |    |    |
| 20 |    |    |    |    | 21 | 22 |    |    |    |    | 23 |    |    |    |
|    |    |    | 24 | 25 |    |    |    |    | 26 |    |    |    |    |    |
| 27 | 28 |    |    |    |    | 29 | 30 | 31 |    | 32 |    |    | 33 | 34 |
| 35 |    |    |    |    | 36 |    | 37 |    | 38 |    |    |    | 39 | 40 |
| 41 |    |    |    |    |    | 42 |    |    |    |    |    | 43 |    |    |
| 44 |    |    |    |    | 45 |    |    |    |    |    | 46 |    |    |    |
|    | 47 |    |    | 48 |    |    | 49 |    | 50 |    | 51 |    |    |    |
|    |    |    |    | 52 |    |    | 53 |    | 54 | 55 |    |    |    |    |
| 56 | 57 | 58 |    |    |    |    | 59 | 60 |    |    |    | 61 | 62 | 63 |
| 64 |    |    |    |    |    | 65 |    |    |    |    | 66 | 67 |    |    |
| 68 |    |    |    |    |    | 69 |    |    |    |    | 70 |    |    |    |
| 71 |    |    |    |    |    | 72 |    |    |    |    | 73 |    |    |    |

- 56 Coke or Pepsi  
57 More than  
58 Clothes-dryer duct  
59 Therefore

- 60 Carryall bag  
62 Curved part of the foot  
63 Grade-school support grps.  
67 Little green veggie



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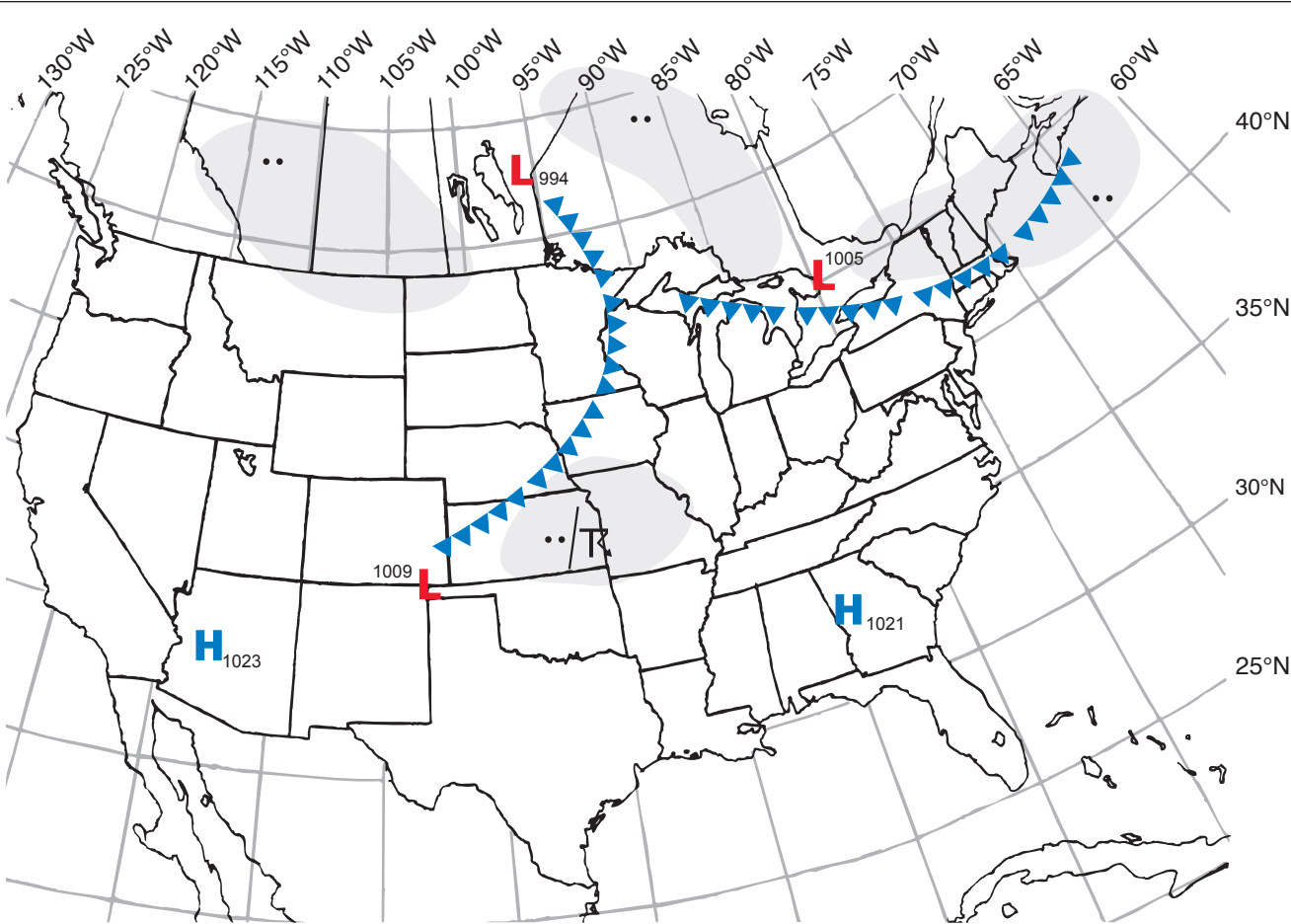
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Situation for Noon Eastern Time, Thursday, September 8, 2016

| Weather Systems        | Weather Fronts                                      | Precipitation Symbols | Other Symbols   |
|------------------------|---|-----------------------|---|
| <b>H</b> High Pressure | --- Trough  | Snow: *               | Fog: ≡  |
| <b>L</b> Low Pressure  | Red semicircles Warm Front                          | Shower: ▽             | Thunderstorm: T                                       |
| <b>S</b> Hurricane     | Blue triangles Cold Front                           | Light: *              | Haze: ∞   |
|                        | Blue triangles and red semicircles Stationary Front | Moderate: **          |   |
|                        |   | Heavy: ***            |   |
|                        |   |                       | Compiled by MIT Meteorology Staff and <i>The Tech</i> |

WEATHER

An end to Hermine

By Costa Christopoulos

STAFF METEOROLOGIST

After striking Florida and ending a 9 year US hurricane drought, Hermine strengthened and began slowly tracking up the eastern seaboard this week. The storm then became trapped off the southeastern coast of New England after evolving into a post-tropical cyclone, where it has been gradually weakening. This morning, the mingled

remains of what was once Hermine will rotate through the Cape before dissipating ahead of an approaching cold front.

Tomorrow a weak front passes through the area, bringing a slight chance of showers early in the morning. Weak high pressure should result in a pleasant Saturday, with mostly sunny skies and highs around 80°F. After another round of scattered showers Sunday morning, another front will usher in cooler air for early next week.

Extended Forecast

**Today:** Mostly cloudy. High of 82°F (28°C) . Winds east at around 5 mph.

**Tonight:** Chance of rain. Low of 72°F (22°C). Winds southwest at 5-10 mph.

**Tomorrow:** Partly cloudy. High of 88°F (31°C). Winds west at 5-10 mph.

**Saturday:** Partly cloudy. High of 79°F (26°C). Winds southwest at 5-10 mph.

**Sunday:** Mostly cloudy. High of 81°F (27°C). Winds west at 10-15 mph.

CORRECTIONS

A subhead in last week’s paper implied that a new dorm that will be opened on West Campus in 2019 will have 700 beds. In fact, the new dorm has been recommended to have between 350 and 400 beds, according to preliminary planning notes sent out in an email by DormCon president Kate M. Farris '17. The Institute is planning eventually to have 700 more beds, some of which may be in another new dorm. When The Tech had inquired about whether there were two new dorms being planned, and where they would be located,

Kim Haberlin, Senior Communications Officer for the Chancellor said that “no decisions about one dorm (let alone two) and a location have been made at this point.”

An article about the Good Samaritan Help Seeking Policy last week did not properly explain how the policy changes came about. The article implies that students worked directly with administrators to convince them to make the policy changes. In fact, the Committee on Student Life (made up of both faculty and students) strongly recommended that the chancellor consider revisions, prompting the discussions that followed.

OPINION POLICY

**Editorials** are the official opinion of *The Tech*. They are written by the Editorial Board, which consists of Chairman Colleen Madlinger, Editor in Chief Katherine Nazemi, Managing Editor Vivian Hu, Executive Editor William Navarre, and Opinion Editor Claire Lazar.

**Dissents** are the signed opinions of editorial board members choosing to publish their disagreement with the editorial.

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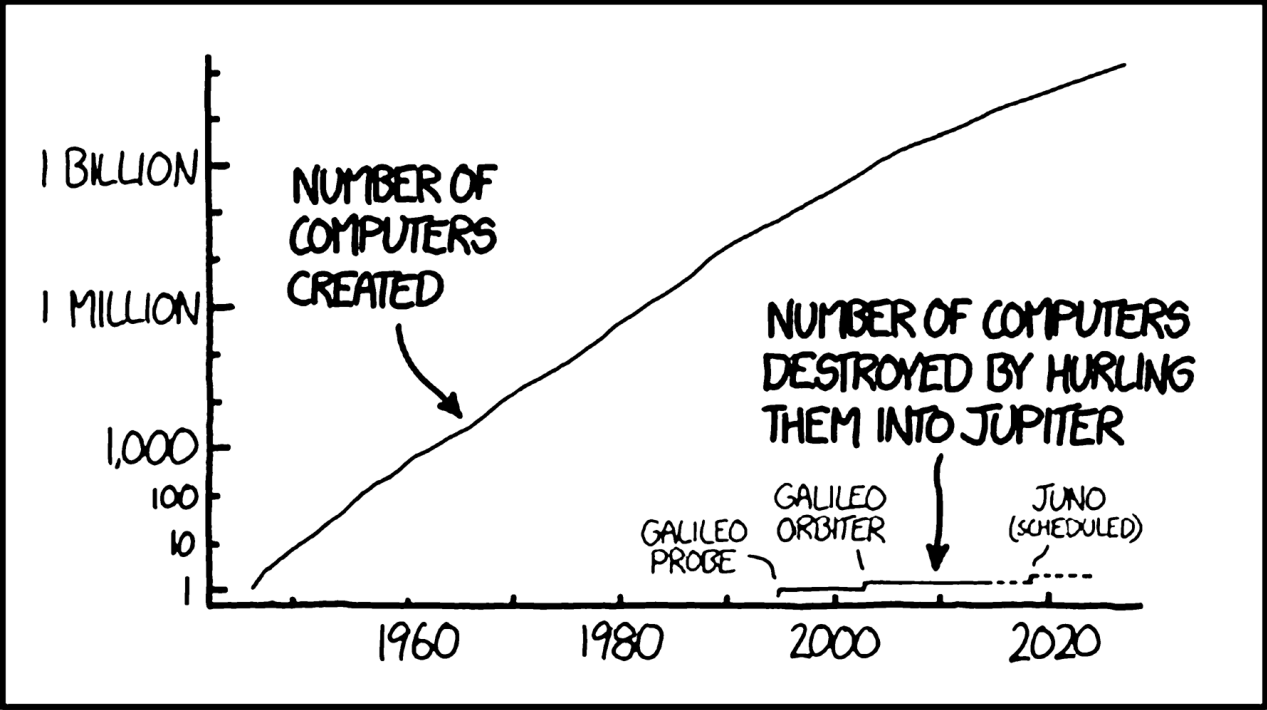
# Giant Techdoku

Solution, page 12

|      |      |     |     |     |      |     |     |
|------|------|-----|-----|-----|------|-----|-----|
| 441x |      |     | 24+ |     |      |     | 4x  |
|      | 24+  |     |     | 3-  |      | 19+ |     |
| 60x  |      | 2   |     | 27x |      |     | 8x  |
|      | 22+  |     | 4   |     | 140x | 14+ |     |
| 9    | 168x |     | 14+ |     |      | 9+  | 14+ |
| 2÷   |      |     | 45x |     | 24x  |     |     |
|      |      | 1   |     | 18x |      |     | 2-  |
| 16+  |      |     | 3   |     | 5-   | 25+ |     |
| 6    |      | 14+ |     |     |      | 16x |     |

Instructions: Fill in the grid so that each column and row contains exactly one of each of the numbers 1–9. Follow the mathematical operations for each box.

[1727] Number of Computers



NASA NEEDS TO PICK UP THE PACE IF THEY EVER WANT TO FINISH THE JOB.



They try to pad their numbers in the annual reports by counting Galileo's redundant systems as multiple computers, but they're falling behind badly either way.









**Casie S. Chen '17 performs** in Spinning Arts' 2016 Fall Fire Show. ROBERT RUSCH—THE TECH



**Elizabeth V. Schell '17 breathes fire** in the Spinning Arts' 2016 Fall Fire Show. ROBERT RUSCH—THE TECH

# FALL FIRE SHOW

A large photograph of a performer, Samuel A. Bauman '17, performing fire spinning. The performer is in the center, creating a complex, multi-looped pattern of fire with a flaming torch. The background is dark with some trees and distant lights.

# SPINNING ARTS

**Samuel A. Bauman '17 performs** in Spinning Arts' 2016 Fall Fire Show. ROBERT RUSCH—THE TECH



**Duncan Wheeler '18 performs** in Spinning Arts' 2016 Fall Fire Show. ROBERT RUSCH—THE TECH



**Allan E. Sadun '17 performs** in Spinning Arts' 2016 Fall Fire Show. ROBERT RUSCH—THE TECH



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2016-2017

mens ET manus MIND science & arts



The *Mind and Hand Book* is the official guide to MIT's expectations of all undergraduate and graduate students, including the policies on academic integrity, alcohol, drugs, hazing, and sexual misconduct.

→ http://handbook.mit.edu ←







**Solution to Orientation**  
*from page 3*

|   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|
| 1 | 5 | 6 | 3 | 8 | 4 | 9 | 2 | 7 |
| 4 | 7 | 8 | 2 | 9 | 6 | 3 | 5 | 1 |
| 9 | 2 | 3 | 1 | 7 | 5 | 8 | 6 | 4 |
| 3 | 8 | 4 | 6 | 1 | 9 | 5 | 7 | 2 |
| 2 | 1 | 5 | 4 | 3 | 7 | 6 | 8 | 9 |
| 6 | 9 | 7 | 5 | 2 | 8 | 4 | 1 | 3 |
| 8 | 3 | 2 | 9 | 5 | 1 | 7 | 4 | 6 |
| 7 | 6 | 1 | 8 | 4 | 3 | 2 | 9 | 5 |
| 5 | 4 | 9 | 7 | 6 | 2 | 1 | 3 | 8 |

**Solution to Disorientation**  
*from page 3*

|   |   |   |   |   |   |
|---|---|---|---|---|---|
| 3 | 4 | 1 | 6 | 5 | 2 |
| 1 | 2 | 5 | 4 | 3 | 6 |
| 6 | 1 | 4 | 3 | 2 | 5 |
| 2 | 3 | 6 | 5 | 4 | 1 |
| 4 | 5 | 2 | 1 | 6 | 3 |
| 5 | 6 | 3 | 2 | 1 | 4 |

**Solution to Writing**  
*from page 3*

|   |   |   |   |   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| H | A | R | E | S | T | W | A | S | S | T | A | R |
| O | P | E | R | A | A | A | R | P | P | O | L | O |
| L | E | A | R | N | L | I | M | O | I | D | O | L |
| E | S | C | D | O | C | T | O | R | S | N | O | T |
|   |   |   | H | E | L | D |   |   | R | A | T | E |
| A | H | O | Y | D | I | G | D | A | T | E |   |   |
| C | O | U | R | T |   | N | O | H | I | T | Y | E |
| I | N | T | E | R | O | F | F | I | C | E | M | E |
| D | O | T |   | E | B | O | O | K | D | E | C | O |
| R | O | A | M | S |   | R | E | P |   | G | O | N |
|   |   |   | M | O | O | D |   |   | I | C | A | N |
| C | O | V | E | R | L | E | T | T | E | R | T | A |
| O | V | E | N |   | E | C | H | O | A | P | A | R |
| L | E | N | D |   | T | A | U | T | M | E | C | C |
| A | R | T | S |   | E | L | S | E |   | P | A | T |
|   |   |   |   |   |   |   |   |   |   |   |   |   |

**Solution to Rush**  
*from page 5*

|   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|
| 5 | 9 | 2 | 1 | 4 | 7 | 8 | 3 | 6 |
| 7 | 4 | 6 | 3 | 2 | 8 | 9 | 5 | 1 |
| 3 | 1 | 8 | 6 | 5 | 9 | 2 | 4 | 7 |
| 9 | 7 | 1 | 5 | 8 | 3 | 6 | 2 | 4 |
| 6 | 5 | 3 | 4 | 7 | 2 | 1 | 8 | 9 |
| 2 | 8 | 4 | 9 | 6 | 1 | 3 | 7 | 5 |
| 8 | 6 | 5 | 2 | 9 | 4 | 7 | 1 | 3 |
| 4 | 3 | 7 | 8 | 1 | 6 | 5 | 9 | 2 |
| 1 | 2 | 9 | 7 | 3 | 5 | 4 | 6 | 8 |

**Solution to Recruitment**  
*from page 5*

|   |   |   |   |   |   |
|---|---|---|---|---|---|
| 4 | 5 | 2 | 3 | 1 | 6 |
| 3 | 4 | 1 | 2 | 6 | 5 |
| 2 | 3 | 6 | 1 | 5 | 4 |
| 1 | 2 | 5 | 6 | 4 | 3 |
| 6 | 1 | 4 | 5 | 3 | 2 |
| 5 | 6 | 3 | 4 | 2 | 1 |

**Solution to Nothing**  
*from page 5*

|   |   |   |   |   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| A | D | A | P | T | P | R | I | M | B | U | Y | S |
| C | A | M | E | O | R | E | D | O | A | T | O | P |
| E | M | P | T | Y | B | O | A | S | T | R | A | G |
| D | E | S |   | D | R | U | M |   | H | E | E | H |
|   |   |   | V | O | I | D |   | S | E | E | M |   |
| V | O | Y | A | G | E | H | A | R | R | I | S | O |
| A | L | E | C |   | F | A | I | L |   | I | N | T |
| L | I | M | A | S |   | P | R | O |   | E | I | E |
| E | V | E | N | T |   | P | E | N | S |   | M | E |
| T | E | N | T | A | C | L | E |   | T | R | U | D |
|   |   |   | S | I | R | E |   | R | O | A | M |   |
| M | A | N | T | R | A |   | M | A | R | S |   | B |
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| L | I | A | R |   | B | E | R | G |   | A | B | L |
| L | A | T | E |   | Y | O | K | E |   | L | O | T |
|   |   |   |   |   |   |   |   |   |   |   |   |   |




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# KENSHO

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```
X = SparseAutoEncoder(num_hidden=10).fit_transform(features)
xycoords = TSNE(random_state=17).fit_transform(X)
DBS = cluster.DBSCAN().fit(X)
plt.scatter(xycoords[:, 0], xycoords[:, 1], color=colors[DBS.labels_])
```



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Meet the EMTs

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should say grammar

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# ‘We can turn this into a movement’

## Professor Zuckerman wants law clinics to spread through academia

Law clinics, from Page 1

media and law [...] and has been interested since the beginning.”

The second one is the Fall 2015 freedom2innovate summit, which explored whether it was possible to build an academic movement to protect research from chilling legal effects.

Zuckerman further details a discussion at the summit about research that was effectively being forbidden, either because of legal or moral barriers. That discussion lead to the recent Forbidden Research conference at the Media Lab, attracting many prominent speakers, including Edward Snowden, known for leaking classified NSA information about surveillance programs.

Finally, “the clinics are the most practical response to the Tid-bit case,” Zuckerman said. “MIT is doing something brave and innovative ... it is a recognized fact that when you are doing cutting edge work, you are in a gray area. If students don’t have legal support, their trend is to back away from their ideas.” Zuckerman hopes the clinic becomes “[the] model that other universities end up

replicating.”

Beyond the clinic, Zuckerman has high hopes for its impact: “I would love to see my colleagues realize we need to be proactive, rather than reactive, on the freedom to innovate. I would love for people to become more active

“I hope I can break the feeling that lawyers are here to say no.”

against laws on the books like CIPA. I would love to hear about places when legal uncertainty has limited [my colleague’s] research. We can turn this into a movement.”

Sellers said that BU Students are also excited about the clinic, receiving far more applications than the 8 spots allow for, making the clinic likely to grow.

Sellers will be holding office hours all day each Friday and is exploring the possibility of teaching a condensed IAP class and offering services during the summer.

“I hope that this gets woven into the fabric of MIT,” concludes Sellers. “Like you have a school doctor, you have a school lawyer.”

### Solution to Giant Techdoku

from page 6

|   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|
| 1 | 9 | 7 | 2 | 8 | 5 | 3 | 6 | 4 |
| 7 | 6 | 4 | 8 | 5 | 2 | 9 | 3 | 1 |
| 5 | 4 | 2 | 6 | 3 | 9 | 7 | 1 | 8 |
| 3 | 2 | 9 | 4 | 1 | 7 | 5 | 8 | 6 |
| 9 | 8 | 6 | 1 | 7 | 4 | 2 | 5 | 3 |
| 8 | 7 | 5 | 9 | 6 | 3 | 1 | 4 | 2 |
| 4 | 3 | 1 | 5 | 2 | 8 | 6 | 9 | 7 |
| 2 | 1 | 8 | 3 | 9 | 6 | 4 | 7 | 5 |
| 6 | 5 | 3 | 7 | 4 | 1 | 8 | 2 | 9 |

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Top: Maya Beiser. Credit: Justin Knight.  
Left: Jacob Collier. YouTube screenshot, "Don't You Know," Live at the Village Underground, London.  
Below: Sumie Kaneko. Credit: Tokio Kuniyoshi

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Line Drawing: Lucy Sikes

- ❖ We are a community that seeks to pray seriously and tries to avoid dogma and ritual. We have no creed.
- ❖ Sometimes our deepest meetings for worship take place completely in silence. Most often three to six messages are offered in the course of roughly one hour of worship together.
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# Spacecraft to fetch sample of asteroid

## OSIRIS-Rex returns to Earth in '23

Kenneth Chang  
THE NEW YORK TIMES

For the next two years, NASA's latest robotic spacecraft will be chasing down an asteroid near Earth in the hopes of scooping up some of the most primordial bits of the solar system.

The premise of the mission for the spacecraft, OSIRIS-REx, is simple: Fly to an asteroid, grab some of the rock and bring it back to Earth, where scientists will study some of the pristine ingredients that went into the making of the solar system, including possibly the building blocks of life.

The spacecraft is sitting on top of an Atlas 5 rocket at Cape Canaveral, Florida, ready for launching on Thursday on a seven-year mission.

Once off the ground, OSIRIS-REx — a shortening of Origins, Spectral Interpretation, Resource Identification, Security, Regolith Explorer — will be aiming to get close to the asteroid Bennu.

“It’s a time capsule from the earliest stages of solar system formation,” said Dante Lauretta, a professor of planetary science and cosmochemistry at the University of Arizona who is the mission’s principal investigator.

OSIRIS-REx will survey Bennu for more than a year to select the site where it will grab the sample of rock. In July 2020, the spacecraft, about the size of a sport utility vehicle, is to slowly descend and bounce off the surface like a pogo stick at a gentle pace of a quarter-mile per hour. A sampling head will shoot a burst of nitrogen to kick up dirt and small rocks during the three to five seconds it is in contact with the surface.

The goal is to collect at least a couple of ounces of material and possibly as much as 4.4 pounds. The spacecraft carries enough nitrogen to attempt to extract material three times if necessary.

After departing Bennu in 2021, OSIRIS-REx will pass by Earth in September 2023, dropping off a capsule with the samples that will land via parachute in a Utah desert.

Lauretta said he was particularly interested in gleaning information about organic molecules like amino acids, the building blocks of proteins that are known to float in outer space. One question is whether Bennu contains higher concentrations of the 20 amino acids used by forms of life on Earth compared with dozens of others not found in living organisms.

Life on Earth also exclusively uses so-called “left-handed” amino acids and not the mirror, right-handed versions. Study of the Bennu material could help explain whether nonbiological chemical reactions in space pushed life toward left-handed molecules or whether that shift occurred later when life arose.

For Lauretta, OSIRIS-REx’s launching is a culmination of a dozen years of work. In 2004, officials at Lockheed Martin discussed the idea of an asteroid return mission with Michael J. Drake, the head of the Lunar and Planetary Institute at Arizona. Drake invited Lauretta to take part.

Lauretta came up with the name. “That’s entirely my fault,” he said.

As he jotted some themes of the scientific objectives — origins, spectroscopy, resources and security — he had most of the letters of Osiris, the Egyptian god who was the lord of the underworld but who also represented the seeds of regeneration to new life.

Meanwhile, engineers at Lockheed Martin had to figure out how to grab a bit of asteroid. The company held a contest. Many of the proposals suggested landing and scooping, but an engineer named James Harris came up with the pogo stick idea, testing out a prototype in his dirt driveway with a plastic cup and an air compressor.

“Now instead of worrying about how to anchor a spacecraft to an asteroid,” said Richard Kuhns, the program manager for OSIRIS-REx at Lockheed Martin Space Systems, “in almost no gravity, you get to gently touch it, take your sample and then back away. Much, much safer for a spacecraft in that environment.”

When the team added instruments to make detailed measurements of Bennu before grabbing the sample, Lauretta tacked Rex (Regolith Explorer) on to the name, because of the connotation with Tyrannosaurus rex and dinosaurs. “We wanted that connection,” Lauretta said.

Now, Lauretta is looking forward to three moments of OSIRIS-REx’s journey. The first is when the spacecraft takes its first clear photograph of Bennu. “That is the moment of truth, what we are up against,” he said.

The second is when the OSIRIS-REx grabs the bits of Bennu, and the third is when the sample arrives back on Earth, seven years from now.

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# Football loses an overtime thriller to WPI in the season opener

By Daniel J. Newman  
SPORTS WRITER

The MIT Engineers dropped an overtime thriller 37-34 to WPI in the season opener. MIT rallied back from a 10-point deficit late in the fourth quarter to force overtime.

An impressive one-handed interception by Rob DiSanto '18 started the rally. The Engineers were quick to capitalize on the turnover as wide receiver Eddy Garcia-Montes '19 hauled in a touchdown catch in the red-zone with less than two minutes to play, cutting the deficit to three points.

There was more drama yet as the Engineers successfully recovered an onside kick. Despite getting sacked on the penultimate play quarterback Udgam Goyal '19 got his team in field goal range with 10 seconds remaining on the clock. Like many a time in his career kicker Tucker Cheyne '17 came through in the clutch, drilling a 37-yard field goal to force the game into overtime.

The aerial attack for the Engineers led the way, with stellar quarterback play from Goyal, who was 24-40 with 258 yards and 3 touchdowns. Eddy Garcia-Montes was a force on the outside, with 11 catches for 153 yards and 2 touchdowns. John Robertson '20 led the way on the ground with 24 carries for 87 yards. Matt Iovino '16 led the



**Robert V. DiSanto '18 reaches out to intercept a pass** during the last quarter of MIT's home season opener against WPI last Friday. The Engineers ultimately lost to WPI 34-31 in overtime.

way on defense with eight tackles, two of which were tackles for loss.

The Engineers take the field again on Saturday, Sept. 10 when they will host Becker College for a 1 p.m. start at Steinbrenner Stadium.

## SPORTS BLITZ

**Women's field hockey (2-0)** started its campaign with victories over Simmons and U. Mass. Dartmouth. Emily Penn '18 scored a hattrick in MIT's 4-1 victory over Dartmouth.

**Women's volleyball (2-2)** won its games against Haverford College and Delaware Valley while suffering reverses at the hands of Mary Washington and University of Heidelberg at the Haverford Invitational.

**Women's soccer (1-1)** Amy Apostol '19 scored one and set up another as the Engineers recorded a fine 3-1 victory away at Worcester State University.

**Women's tennis (1-0)** blanked Emerson 9-0. Elysa Kohrs '17 won her 100th career match.

**Men's water polo (2-2)** defeated Wagner and Johns Hopkins University at the Bruno Classic.

**Men's soccer (1-0)** opened their season with a 1-0 victory away at Stevens Institute of Technology.

— Souparno Ghosh

## Do you wish your sport was covered?

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**sports@tech.mit.edu**



**Devon K. Goetz '20 challenges a player from Simmons College** for possession of the ball during MIT's season opener against Simmons College last Thursday. The Engineers won the match 2-0.

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